

## Percentage of Acute Hepatitis B Cases with Complete Information — WV, 2007-2011 Region 7

| <u>Indicator</u>   | <b>West Virginia</b> | <b>Region 7</b> | <b>Barbour</b> | <b>Braxton</b> | <b>Clay</b> | <b>Gilmer</b> | <b>Lewis</b> | <b>Nicholas</b> | <b>Randolph</b> | <b>Webster</b> |
|--|----------------------|-----------------|----------------|----------------|-------------|---------------|--------------|-----------------|-----------------|----------------|
| Total Cases  | 452                  | 32              | 2              | 5              | 1           | 2             | 1            | 11              | 3               | 7              |
| <b><u>Demographic</u></b>  |                      |                 |                |                |             |               |              |                 |                 |                |
| County   | 100%                 | 100%            | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 100%           |
| Age  | 100%                 | 100%            | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 100%           |
| Gender   | 100%                 | 100%            | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 100%           |
| Ethnicity  | 86%                  | 88%             | 100%           | 100%           | 100%        | 100%          | 0%           | 100%            | 33%             | 86%            |
| Race   | 95%                  | 97%             | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 67%             | 100%           |
| <b><u>Clinical</u></b>   |                      |                 |                |                |             |               |              |                 |                 |                |
| Date of Onset  | 100%                 | 100%            | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 100%           |
| Jaundice   | 98%                  | 100%            | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 100%           |
| <b><u>Risk Factors</u></b> (answered y/n are included in the numerator, unknown or missing not included)         |                      |                 |                |                |             |               |              |                 |                 |                |
| Was the patient a <b>contact</b> of a person with confirmed or suspected acute or chronic <b>HBV infection</b> ? | 67%                  | 53%             | 50%            | 60%            | 100%        | 100%          | 100%         | 18%             | 67%             | 71%            |
| Was the patient <b>EVER treated for STD</b> ?  | 68%                  | 84%             | 100%           | 60%            | 100%        | 100%          | 0%           | 100%            | 100%            | 71%            |
| Did the patient <b>inject drugs</b> not prescribed by a doctor?  | 86%                  | 88%             | 100%           | 60%            | 100%        | 100%          | 100%         | 100%            | 100%            | 71%            |

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|---|----------------------|-----------------|----------------|----------------|-------------|---------------|--------------|-----------------|-----------------|----------------|
| Did the patient <b>use street drugs</b> but not inject?   | <b>82%</b>           | 84%             | 100%           | 60%            | 100%        | 100%          | 0%           | 100%            | 100%            | 71%            |
| Did the patient <b>undergo hemodialysis</b> ?   | <b>87%</b>           | 94%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient have an <b>accidental stick or puncture</b> with a needle or other contaminated object? | <b>81%</b>           | 91%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 71%            |
| Did the patient receive <b>blood or blood products (transfusion)</b> ?                                  | <b>86%</b>           | 94%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient receive any <b>IV infusion and/or injection in the outpatient setting</b> ?             | <b>82%</b>           | 94%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient have other <b>exposure to someone else's blood</b> ?                                    | <b>77%</b>           | 91%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 71%            |
| Was the patient employed in a <b>medical or dental field</b> involving direct contact with human blood? | <b>85%</b>           | 91%             | 100%           | 80%            | 100%        | 100%          | 0%           | 100%            | 100%            | 86%            |
| Was the patient employed as a <b>public safety worker</b> having direct contact with human blood?       | <b>85%</b>           | 97%             | 100%           | 100%           | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |

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|--|----------------------|-----------------|----------------|----------------|-------------|---------------|--------------|-----------------|-----------------|----------------|
| Did the patient receive a <b>tattoo</b> ?  | 82%                  | 97%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient have any part of their <b>body pierced</b> (other than ear)?                 | 82%                  | 91%             | 100%           | 60%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient have <b>dental work or oral surgery</b> ?                                    | 81%                  | 94%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Did the patient have <b>surgery</b> ?  | 73%                  | 78%             | 100%           | 60%            | 0%          | 0%            | 0%           | 100%            | 100%            | 86%            |
| Was the patient <b>hospitalized</b> ?  | 67%                  | 69%             | 100%           | 40%            | 0%          | 0%            | 0%           | 91%             | 100%            | 71%            |
| Was the patient a <b>resident of longterm care facility</b> ?                                | 86%                  | 94%             | 100%           | 80%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| Was the patient <b>incarcerated for longer than 24 hours</b> ?                               | 84%                  | 91%             | 100%           | 60%            | 100%        | 100%          | 100%         | 100%            | 100%            | 86%            |
| During his/her lifetime, was the patient <b>EVER incarcerated for longer than 6 months</b> ? | 81%                  | 84%             | 100%           | 40%            | 100%        | 100%          | 100%         | 100%            | 100%            | 71%            |
| Lost to follow up (y/n answer)?  | 94%                  | 88%             | 50%            | 80%            | 100%        | 100%          | 0%           | 100%            | 67%             | 86%            |

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|---|---------------|----------|---------|---------|------|--------|-------|----------|----------|---------|
| <b><u>Percentage of Acute Hepatitis B who are lost to follow up</u></b> |               |          |         |         |      |        |       |          |          |         |
| Lost to follow up...? (answered yes)                                    | 13%           | 6%       | *       | 20%     | 0%   | 0%     | *     | 0%       | *        | 17%     |

\* Unable to calculate a percentage due to missing information

### Strengths

- Baseline data from which we can begin to develop a plan to improve indicator completeness

### Limitations

- Some counties reported no cases or very few cases
- It is unclear if the answer unknown means that the health department does not know the answer to the question because they were unable to interview the patient or if the patient does not know the answer to the question
- Data is from 2007 to 2011 and was collected using the old WVEDSS database and it may be difficult to compare with the new WVEDSS
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### Recommendations

- Missing or unknown or blank viewed as an incomplete response
- Document education provided to the patient
- Document when the patient is lost to follow up
- State resources that are available to assist with investigations
  - State Hepatitis B Epidemiologist
  - Perinatal Hepatitis B Coordinator
  - Disease Investigation Specialists